Geological Survey of Ireland, 1:63,360 maps and associated sections: report on the digitization programme

Information Programme
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Geological Survey of Ireland, 1:63,360 maps and associated sections: report on the digitization programme

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Keywords
Ireland, Geological Survey of Ireland, maps

Bibliographical reference

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Summary

This report is a summary of the results of a digitization programme to capture the Irish 1:63,360 geological maps that resulted from the survey instigated by Sir Henry De La Beche on 22 May 1845 and finally completed by the publication of the last seven maps in 1890.

Introduction

Early geological mapping in Ireland had its origins in the search for economic minerals. By the 1830s two geological surveys had been established, one being run from the Valuation Office by Sir Richard Griffith and the other run as part of the Ordnance Survey. In 1845 Sir Henry Thomas De La Beche became the founder and first Director of the civilian Geological Survey of the United Kingdom under the aegis of the First Commissioner of Her Majesty’s Woods, Forests, Land Revenues, Works and Buildings. The Act of Parliament of 1845 establishing the Survey referred to the completion of a geological survey of Great Britain and Ireland. There was no specific reference to maps, but the implication to provide the results of the survey in map form was clearly there.

The first Local Director of the Geological Survey of Ireland was Sir Henry James. The Survey’s appointed task under his leadership was to conduct a nationwide survey of Ireland and to produce a map significantly improving the 1839 Quarter-inch geological map of Ireland produced by Sir Richard Griffith. The mapping was to be conducted on the scale of six inches to the mile using the Ordnance Survey topographic maps at this scale as a base, which incidentally proved ideal for geological mapping, base maps at this scale are still used today. The final maps for the public were to be produced at a scale of one inch to one mile, 1:63,360. On 22 May 1845 De La Beche wrote to James instructing him to start the new Survey’s
mapping campaign in southeast Ireland, Dublin, Wicklow, Kilkenny, Carlow, Wexford and Waterford. There were two reasons for selecting this area. Firstly De La Beche had a team working just across St. George’s Channel in Wales, working both sides could resolve common problems; and secondly, there were known economic deposits in the area, coal at Castlecomer and copper at Avoca, and it would have been foremost in De La Beche’s mind to show the economic benefits of the new geological survey.

The start of one-inch geological map production was dependent on the availability of the Ordnance Survey 1:63,360 topographic sheets which were used as a base. This latter series was first authorised in April 1851 and it was intended to cover the whole country in fifty-nine sheets of the same dimensions as the Ordnance’ Survey’s six-inch maps, 90x60 cm. This size was thought to be too impractical so they soon decided to issue sheets a quarter of the size. Each sheet was numbered to the original 59 sheet series numbers with an additional quarter sheet designation, SW, SE, NW, NE for example 46 SE. This numbering system lasted until 1858 when it was proposed that the quarter sheets should be accorded full sheet status and would be numbered 1 to 205. Before 1873 the base OS maps used by the Geological Survey were the outline edition, from 1873 the ‘hill edition’ with hachuring was used.

Mapping proceeded in the field on six-inch sheets quartered for convenience of handling. The geologist recorded in pencil the rock types at each exposure and made notes or sketches in field notebooks. The information recorded would then be inked in during the evening. Another evening job was to duplicate the information on a second set of sheets, periodically the geologist would also draw the essentials onto a set of two one-inch maps. Each one-inch map would be sent to Dublin for approval on completion. When approval had been granted, the geologist would be given a new clean copy of the one-inch map onto which he placed all the information required for the published sheet. This was then sent to the Ordnance Survey for engraving – a first proof being returned. Final amendments were made and the first proof returned to the OS. After the amendments had been engraved the second proof came back and the geologist added the standard colours to make the ‘pattern copy’. The pattern copy was the standard to which copies were coloured for sale, this was usually done by the Survey colourists in England.

In 1887 the primary geological survey of Ireland, begun over forty years earlier in 1845, was coming to a close. The summer of 1887 saw George Henry Kinahan and Sidney Berdoe Neal Wilkinson at work in far off Donegal. Wilkinson completed his work first and Kinahan stayed on until October, so finishing the survey. Gordon Herries Davies in his book “Sheets of many colours” tells the story:

“It must have been one evening towards the close of that month when Kinahan plied his hammer to the very last rock exposure to be examined during the primary geological survey of Ireland. Having peered at the resultant sliver of rock through his lens, he must have entered some comment in his notebook, recorded the site upon his field-sheet, closed his map-case, and turned his steps homeward. It was all a routine that he knew so well; thousands of other days in the field had ended for him in precisely the same way as the evening shadows lengthened. But this evening was really different. The geological campaign which had opened in County Wexford in the summer of 1845 was now at last concluded. And how appropriate that it should have been Kinahan who made those final observations which brought the primary survey of Ireland to its close. He was a
stormy character certainly, but in terms of service within Ireland he was the Survey's senior officer. For well over thirty years he had carried his hammer and his maps through some of Ireland's most rugged terrain; he surely deserved to strike the final hammer blow on behalf of the Survey. As he trudged home that last evening did his memories perhaps return to that now distant occasion in August 1854 when, fresh out of Trinity College, he had reported for training at Bantry, there to find himself in the inspiring company of Jukes, Ramsay, and Sir Henry De La Beche himself. In those days a one-inch geological map of Ireland was still merely a project under discussion, but now in Donegal he and Wilkinson had just fashioned those final pieces necessary to complete the great one-inch geological mosaic”.

This was the close of the mapping programme. Production of the final maps took a few years longer, with the final seven maps published in 1890.

Perhaps the last word should go Mrs E. Williams the person responsible for colouring the one inch geological maps. Her job was to turn them from an uncoloured outline to what could be regarded as a work of art. Again a quote from Gordon Herries Davies in his book “Sheets of many colours” tells the story:

“Mrs E. Williams of 4 Stratford Villas, Camden Square, Camden Town, London. During the closing decades of the nineteenth century she was employed to work at home colouring those maps of the Geological Survey of Great Britain and Ireland which were destined for distribution to the public. As we contemplate one of the early copies of that colourful final Irish one-inch sheet — Sheet 10 — it is Mrs Williams's handiwork that excites our admiration. Toiling in the grimy air of Victorian London, close to the Metropolitan Cattle Market and hard by the Midland Railway’s line out of St Pancras, hers was a landscape far removed from the Irish landscape of purple mountains, tranquil rivers, sandy eskers, brown peat-bogs, and storm-beaten cliffs — an Irish landscape which had become so familiar to generations of geologists as they painstakingly traced out those geological lines which Mrs Williams's brush now had to follow with such care and precision.”

This publication consists of two listings with images of items in the listings in the appendix. The two listings are:

One inch to one-mile map sheets.
Sheets are arranged in numerical order using the later 1-205 sheet numbers. The listing is not meant to be a definitive cartobibliographic record. It is chiefly a record of sheets held in the British Geological Survey Library collections. If a sheet is missing from the collections then details were added from the contemporary published catalogues.

Longitudinal or horizontal sections.
This section includes a small number of miscellaneous maps and sections.

Following the lists are a set of reduced scale prints of all map editions and sections held in the BGS.

**Methodology**
Metadata for the maps was compiled from the maps themselves into a Microsoft Access database and field names were assigned to each variant. The maps and sections were scanned using ‘Colortrac 4280 enhanced’ scanner and ‘Scanworks 2.2.0 software. The maps were scanned to corporate standards for scanning.
Scans were captured as TIFF uncompressed files for archive purposes. A set of JPEG2000 derivatives were created using the batch processing facility in ER Mapper. The settings were:
- Colour: RGB
- Target compression ratio: 10
- Compressor sets output resolution
- Output bit depth (1-28): 8

References

British Geological Survey holds most of the references listed below, and copies may be obtained via the library service subject to copyright legislation (contact libuser@bgs.ac.uk for details). The library catalogue is available at: http://geolib.bgs.ac.uk.

Ireland 1:63,360 geological maps
**Geological Survey of Ireland hand-coloured 1:63,360 maps.**

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Sheet 33 Omagh November 1885 IR033A_001

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Sheet 34 Ballygawley December 1887 IR034A_001
Geologically surveyed by J. Nolan and E.T. Hardman

Sheet 34 Ballygawley 1913 IR034B_001
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Sheet 35 Dungannon December 1875 IR035A_001
Geologically surveyed by Edward T. Hardman

Sheet 36 Belfast April 1870 IR036A_001
Surveyed by G.V. Du Noyer, J.J. Warren and W.B. Leonard

Sheet 36 Belfast 1876 IR036B_001
Geologically surveyed by G.V. Du Noyer, J.J. Warren and W.B. Leonard

Sheet 36 Belfast 1901 IR036C_001

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Sheet 37 Newtown Ards October 1869 IR037A_001
Surveyed by G.V. Du Noyer, J.L. Warren and W.B. Leonard

Sheet 37 Newtown Ards 1898 IR037B_001
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Sheet 37  Newtown Ards  1900  IR037C_001
Surveyed by G.V. Du Noyer, J.L. Warren and W.B. Leonard. The Silurian area revised by F.W. Egan 1898 (Published 1900).

Sheet 38  [Part of the coast of Down]  August 1869  IR038A_001
Surveyed by G.V. Du Noyer, J.L. Warren and W.B. Leonard

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Sheet 40  [Benwee Head]  August 1877  IR040A_001
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Sheet 41  [Downpatrick Head]  December 1877  IR041A_001
Geologically surveyed by Richard G. Symes

Sheet 42  [Part of Sligo]  January 1883  IR042A_001
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Sheet 43  Manor Hamilton  December 1885  IR043A_001
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Sheet 44  Derrygonnelly  October 1884  IR044A_001
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Sheet 45  Enniskillen  1913  IR045B_001
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Sheet 46  Clogher  December 1881  IR046A_001
Geologically surveyed by Joseph Nolan, Richard J. Cruise and J.R. Kilroe

Sheet 46  Clogher  1901  IR046B_001

Sheet 46  Clogher  1913  IR046C_001
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Sheet 57 Lisnaskea December 1881 IR057A_001

Sheet 57 Lisnaskea 1898 IR057B_001

Sheet 57 Lisnaskea 1900 IR057C_001

Sheet 58 Monaghan December 1880 IR058A_001
Geologically surveyed by Richard J. Cruise

Sheet 58 Monaghan 1901 IR058B_001
Geologically surveyed by Richard J. Cruise. The Silurian rocks revised by F.W. Egan (Published 1901).

Sheet 58 Monaghan 1911 IR058C_001
Geologically surveyed by Richard J. Cruise. The Silurian rocks revised by F.W. Egan (Published 1901).

Sheet 58 Monaghan 1967 IR058D_001

Sheet 59 Castleblayney December 1875 IR059A_001
Surveyed by F.W. Egan

Sheet 59 Castleblayney 1901 IR059B_001
Surveyed by F.W. Egan. The Silurian rocks revised by F.W. Egan and A. McHenry (Published 1901).

Sheet 60 Newry May 1876 IR060A_001
Geologically surveyed by W.A. Traill

Sheet 60 Newry 1901 IR060B_001
Geologically surveyed by W.A. Traill. The Silurian rocks revised by F.W. Egan (Published 1901).

Sheet 60 Newry 1968 IR060C_001

Sheet 61 Ardglass July 1871 IR061A_001
Geologically surveyed by W.A. Traill

Sheet 61 Ardglass 1901 IR061B_001
Geologically surveyed by W.A. Traill. The Silurian rocks revised by F.W. Egan (Published 1901).

Sheet 62 Achill Island September 1878 IR062A_001
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Sheet 63 [Part of Mayo] December 1879 IR063A_001

Sheet 64 Ballina November 1878 IR064A_001
Geologically surveyed by Richard G. Symes

Sheet 65 Swineford March 1878 IR065A_001
Geologically surveyed by Richard G. Symes, Sidney B. Wilkinson and J.R. Kilroe

Sheet 66 Boyle April 1875 IR066A_001
Geologically surveyed by F.J. Foot and R.J. Cruise.

Sheet 67 Carrick-on-Shannon December 1876 IR067A_001
Geologically surveyed by Richard J. Cruise

Sheet 67 Carrick-on-Shannon 1901 IR067B_001
Geologically surveyed by Richard J. Cruise. The Silurian area revised by F.W. Egan and A. McHenry 1898 (Published 1901).

Sheet 68 Cavan March 1878 IR068A_001
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Sheet 68 Cavan 1901 IR068B_001
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Sheet 69 Cootehill May 1878 IR069A_001
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Sheet 69 Cootehill 1901 IR069B_001
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Sheet 70 Dundalk August 1875 IR070A_001
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Sheet 71 Carlingford December 1876 IR071A_001
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Sheet 71 Carlingford 1901 IR071B_001
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Sheet 72 [Part of Down] July 1871 IR072A_001
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Sheet 92 Drogheda 1901 IR092D_001

Sheet 92 Drogheda 1901 IR092C_001
Geo.V. Du Noyer and Jos. O'Kelly. Revised by R.J. Cruise 1871.. Silurian rocks revised by A. McHenry. Igneous rocks by A. McHenry and H.J. Seymour (Published 1901). Ordnance Survey, Revised Price 3/- net. [In red ink.]

Sheet 93 Clifden May 1876 IR093A_001
Surveyed under G.H. Kinahan, James L. Warren, H. Leonard, R.J. Cruise and J. Nolan. Ordnance Survey revised price 14/3 net. [In red ink.]

Sheet 94 [Recess part of Galway] December 1877 IR094A_001
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Sheet 95 Headford June 1869 IR095A_001
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Sheet 97 Mount Bellew June 1867 IR097A_001
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Sheet 98 Ballymahon March 1865 IR098A_001
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Sheet 99 Mullingar April 1864 IR099A_001
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Sheet 100 Kinnegad June 1860 IR100A_001
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Sheet 101 Trim December 1859 IR101A_001
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Sheet 101 Trim 1901 IR101B_001
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Sheet 102 Swords December 1859 IR102A_001
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Sheet 103 Sylne Head 1870 IR103A_001
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Sheet 104 [Part of Galway] July 1870 IR104A_001
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Sheet 105 Galway March 1867 IR105A_001
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Sheet 105 Galway March 1869 IR105B_001
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Sheet 106 Athenry June 1867 IR106A_001
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Sheet 107 Ballinasloe June 1867 IR107A_001
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Sheet 108 Athlone March 1865 IR108A_001
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Sheet 109 Tullamore April 1864 IR109A_001
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Sheet 110 Edenderry August 1859 IR110A_001
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Sheet 111 Maynooth September 1859 IR111A_001
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Sheet 112 Dublin September 1859 IR112A_001
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Sheet 112 Dublin 1901 IR112B_001

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Sheet 113 Aran Islands March 1869 IR113A_001
Surveyed by G.H. Kinahan

Sheet 114 Ballyvaghan October 1862 IR114A_001
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Sheet 114 Ballyvaghan 1868 IR114B_001
Surveyed by F.J. Foot with additions by G.H. Kinahan in 1868.

Sheet 114 Ballyvaghan 1882 IR114C_001
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Sheet 115 Loughrea March 1865 IR115A_001
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Sheet 117 Parsonstown June 1863 IR117A_001
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Sheet 117 Parsonstown 1901 IR117B_001
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Sheet 118 Mountmellick May 1863 IR118A_001
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Sheet 119 Portarlington October 1857 IR119A_001
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Sheet 121 Bray June 1855 IR121A_001
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Sheet 121 Bray 1901 IR121C_001

Sheet 122 Hags Head October 1862 IR122A_001
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Sheet 122 Hags Head 1882 IR122B_001
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Sheet 123 Ennistimon October 1862 IR123A_001
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Surveyed by F.J. Foot.

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Surveyed by A.B. Wynne.

Surveyed by A.B. Wynne. Silurian rocks revised by J.R. Kilroe (Published 1901).

Surveyed by F.J. Foot. Revised by E.T. Hardman, 1878.


Surveyed by T. Oldham, W.L. Willson, A. Wyley and W.W. Smyth.
Geological Survey of Ireland hand-coloured 1:63,360 maps.

Sheet 138 Tullow 1901 IR138C_001

Sheet 139 Arklow February 1856 IR139A_001
W.L. Willson and A. Wyley

Sheet 139 Arklow 1861 IR139B_001
Surveyed by W.L. Willson and A. Wyley. The Trappean rocks re-surveyed by Geo. V. Du Noyer, 1861.

Sheet 139 Arklow 1901 IR139C_001
Surveyed by W.L. Willson and A. Wyley. The Trappean rocks re-surveyed by Geo. V. Du Noyer, 1861. Revised 1901.

Sheet 140 Loop Head November 1859 IR140A_001
Surveyed by F.J. Foot

Sheet 140 Loop Head 1882 IR140B_001
Surveyed by F.J. Foot. Revised 1882. Ordnance Survey, Revised Price 1/- net. [In red ink.]

Sheet 141 Kilrush September 1859 IR141A_001
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Sheet 141 Kilrush 1881 IR141B_001
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Sheet 142 Foyles November 1859 IR142A_001
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Sheet 142 Foyles 1882 IR142B_001
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Sheet 143 Limerick April 1860 IR143A_001
Surveyed by G.H. Kinahan

Sheet 143 Limerick 1874 IR143B_001
G.H. Kinahan

Sheet 143 Limerick April 1901 IR143C_001
Surveyed by G.H. Kinahan. Igneous rocks revised in 1874. Silurian rocks revised by J.R. Kilroe (Published 1901).

Sheet 144 Cappamore 1860 IR144A_001
Surveyed by G.H. Kinahan, J. O'Kelly and A.B. Wynne

Sheet 144 Cappamore 1874 IR144B_001
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Sheet 144 Cappamore 1901 IR144C_001
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Surveyed by W.L. Willson, A. Wyley and Geo.V. Du Noyer. The Trappean rocks re-surveyed by Geo. V. Du Noyer, 1862.
Surveyed by F.J. Foot.
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Surveyed by F.J. Foot. Revised by R.J. Cruise, 1881.
**Geological Survey of Ireland hand-coloured 1:63,360 maps.**

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Sheet 159  Blackwater  June 1855  IR159A_001
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Sheet 159  Blackwater  1876  IR159B_001
Surveyed by W.L. Willson and A. Wyley. Revised 1876 by G.H. Kinahan.

Sheet 159  Blackwater  1901  IR159C_001

Sheet 160  Brandon Head  July 1859  IR160A_001
Surveyed by Geo.V. Du Noyer

Sheet 161  Tralee Bay  July 1859  IR161A_001
Surveyed by Geo.V. Du Noyer, F.J. Foot and A.B. Wynne

Sheet 161  Tralee Bay  1879  IR161B_001

Sheet 161  Tralee Bay  1913  IR161C_001

Sheet 162  Tralee  October 1859  IR162A_001
Surveyed by Frederick J. Foot

Sheet 162  Tralee  1883  IR162B_001
Surveyed by Frederick J. Foot. Revised by R.J. Cruise, 1883.

Sheet 163  Newmarket  February 1859  IR163A_001
Surveyed by W.L. Willson, F.J. Foot, G.H. Kinahan and A.D .Wynne

Sheet 163  Newmarket  1882  IR163B_001

Sheet 164  Charleville  June 1859  IR164A_001
Surveyed by W.L. Willson, Jos. O'Kelly and A.B. Wynne

Sheet 164  Charleville  1882  IR164B_001

Sheet 165  Mitchelstown  October 1857  IR165A_001
Surveyed by Geo.V. Du Noyer, A.B. Wynne and Jos. O'Kelly

Sheet 165  Mitchelstown  1901  IR165B_001
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Geological Survey of Ireland hand-coloured 1:63,360 maps.

Sheet 170 Rosslare Point 1873 IR170B_001
Surveyed by A. Wyley. Revised April 1873 by G.H. Kinahan.

Sheet 171 Dingle February 1859 IR171A_001
Surveyed by G.V. Du Noyer. The Tearaght and Inishnabro surveyed by A.B. Wynne.

Sheet 171 Dingle 1913 IR171B_001
Surveyed by G.V. Du Noyer. The Tearaght and Inishnabro surveyed by A.B. Wynne.

Sheet 172 Dingle Bay February 1859 IR172A_001

Sheet 172 Dingle Bay 1879 IR172B_001

Sheet 172 Dingle Bay 1913 IR172C_001

Sheet 173 Killarney June 1859 IR173A_001

Sheet 173 Killarney 1882 IR173B_001

Sheet 173 Killarney 1913 IR173C_001

Sheet 174 Millstreet August 1859 IR174A_001
Surveyed by W.L. Willson and F.J. Foot.

Sheet 174 Millstreet September 1860 IR174B_001
Surveyed by W.L. Willson and F.J. Foot. Geology of this map published Aug. 1859 [some corrections inserted September 1860].

Sheet 174 Millstreet 1882 IR174C_001
Surveyed by W.L. Willson and F.J. Foot. Revised by R.J. Cruise and Alex. McHenry, 1882. Ordnance Survey, Revised Price 5/3 net. [In red ink.]

Sheet 174 Millstreet 1913 IR174D_001

Sheet 175 Mallow October 1858 IR175A_001
Surveyed by W.L. Willson, G.V. Du Noyer, F.J. Foot and A.B. Wynne.

Sheet 175 Mallow September 1860 IR175B_001
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Sheet 175  Mallow  1882  IR175C_001

Surveyed by W.L. Willson, G.V. Du Noyer, F.J. Foot and A.B. Wynne. Information as to some of the crops of coal worked many years ago was supplied by Sir R. Griffiths. Resurveyed by R.J. Cruise and Alex. M. McHenry, 1882.

Sheet 175  Mallow  1913  IR175D_001

Surveyed by W.L. Willson, G.V. Du Noyer, F.J. Foot and A.B. Wynne

Sheet 176  Fermoy  October 1857  IR176A_001

Surveyed by A. Wyley and G.V. Du Noyer

Sheet 176  Fermoy  1882  IR176B_001


Sheet 176  Fermoy  1913  IR176C_001


Sheet 177  Lismore  October 1857  IR177A_001

Surveyed by A. Wyley

Sheet 177  Lismore  1880  IR177B_001

Surveyed by A. Wyley. Revised in 1879 & 1880 by Alex. McHenry.

Sheet 177  Lismore  1913  IR177C_001

Surveyed by A. Wyley and A. M'Henry

Sheet 178  Dungarvan  1857  IR178A_001

Surveyed by W.L. Willson

Sheet 178  Dungarvan  1863  IR178B_001

Surveyed by W.L. Willson. The Trappean rocks re-surveyed by Geo. V. Du Noyer, 1863.

Sheet 178  Dungarvan  1901  IR178C_001

Surveyed by W.L. Willson. The Trappean rocks re-surveyed by Geo. V. Du Noyer, 1863.

Sheet 178  Dungarvan  1913  IR178D_001


Sheet 179  Tramore  1857  IR179A_001

Surveyed by W.L. Willson and G.V. Du Noyer

Sheet 179  Tramore  1863  IR179B_001

Surveyed by W.L. Willson and G.V. Du Noyer. The Trappean rocks re-surveyed by Geo. V. Du Noyer, 1863.

Sheet 179  Tramore  1901  IR179C_001


Sheet 180  Fethard  February 1856  IR180A_001

Surveyed by A. Wyley, Geo.V. Du Noyer

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<td>Surveyed by A. Wyley. Revised March 1873 by G.H. Kinahan. Ordnance Survey, Revised Price 1/3 net. [In red ink.]</td>
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<td>182</td>
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Sheet 184 Kenmare 1913 IR184D_001

Sheet 185 [Part of Kerry] November 1858 IR185A_001
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Surveyed by W.L. Willson, G.V. Du Noyer and F.J. Foot. Revised in 1879, '80 by Alex. McHenry

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Sheet 186 Blarney 1857 IR186A_001
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Sheet 186 Blarney February 1858 IR186B_001
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Sheet 186 Blarney 1879 IR186C_001
Surveyed by A. Wyley and G.V. Du Noyer. Revised in 1879 by Alex. McHenry.

Sheet 187 Cork October 1857 IR187A_001
Surveyed by W.L. Willson and A. Wyley

Sheet 187 Cork 1863 IR187B_001

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Surveyed by W.L. Willson and A. Wyley. Revised by J. Beete Jukes in 1863. Revised in 1879 by Alex. McHenry. Ordnance Survey, Revised Price 5/3 net. [In red ink.]

Sheet 187 Cork 1913 IR187D_001
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Sheet 188 Youghal October 1857 IR188A_001
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Sheet 189 [Mine Head] 1858 IR189A_001
Surveyed by W.L. Willson and A. Wyley. Geology of this map published [blank]. 1858 in pencil ms.
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Sheet 189  [Mine Head]  1880  IR189B_001
Surveyed by W.L. Willson and A. Wyley. Revised in 1880 by Alex. McHenry. Ordnance Survey. Revised Price 1/3 net. [In red ink.]

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Sheet 190  Bolus Head  1858  IR190A_001
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Sheet 190  Bolus Head  1881  IR190B_001
Surveyed by G.H. Kinahan and J. O'Kelly (revised in 1881). Revised in 1881. Ordnance Survey. Revised Price 1/3 net. [In red ink.]

Sheet 191  Kenmare River  September 1858  IR191A_001
Surveyed by G.H. Kinahan, J. O'Kelly and A.B. Wynne

Sheet 191  Kenmare River  1881  IR191B_001

Sheet 191  Kenmare River  1913  IR191C_001

Sheet 192  Glengarriff  September 1858  IR192A_001

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Sheet 194  Bandon  February 1858  IR194A_001
Surveyed by W.L. Willson and G.V. Du Noyer.
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Sheet 194 Bandon 1913 IR194D_001
Surveyed by W.L. Willson and G.V. Du Noyer

Sheet 195 Queenstown October 1857 IR195A_001
Surveyed by J. Beete Jukes, W.L. Willson and G.V. Du Noyer

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Sheet 196 Ballycottin October 1857 IR196A_001
Surveyed by W.L. Willson

Sheet 196 Ballycottin 1879 IR196B_001
Surveyed by W.L. Willson. Revised in 1879 by Alex. McHenry. Ordnance Survey, Revised Price 1/3 net. [In red ink.]

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Surveyed by G.H. Kinahan. Revised in 1881.

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Sheet 198 Castletown Bearhaven October 1858 IR198A_001
Surveyed by W.L. Willson, G.H. Kinahan and Jos. O'Kelly

Sheet 198 Castletown Bearhaven 1881 IR198B_001

Sheet 198 Castletown Bearhaven 1913 IR198C_001
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Sheet 199 Bantry Bay February 1859 IR199A_001
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Surveyed by W.L. Willson, A. Wyley and Geo.V. Du Noyer

Sheet 200 Skibbereen 1881 IR200B_001
Surveyed by W.L. Willson, A. Wyley and Geo.V. Du Noyer. Revised in 1881 by Alex. McHenry.

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Sheet 201 Clonakilty 1891 IR201C_001

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Sheet 202 Old Head of Kinsale October 1857 IR202A_001
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Surveyed by W.L. Willson. Revised in 1881 by Alex. McHenry.

Sheet 204 Cape Clear September 1858 IR204A_001
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Sheet 204 Cape Clear 1881 IR204B_001

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Ireland, horizontal or longitudinal sections and miscellaneous maps
Ireland, horizontal or longitudinal sections and miscellaneous maps

Horizontal or longitudinal section 1. Section from near Abbeyleix across the Castlecomer Coalfield, to the Granite east of Carlow; with a short Section on the eastern side of the Granite, south of Tinahely, in nearly the same line. (1860.) [Maps 136, 137, 188.] Price 4s. 3d.

File Name: HS_001

Horizontal or longitudinal section 2. Section from the city of Kilkenny northwards through the Castlecomer Coalfield to Athy and the County of Kildare. (1860.) [Maps 120, 128, 129, 137, 147.] Price 3s. 9d.

File Name: HS_002

Horizontal or longitudinal section 3. Section from the Limestone Plain between Abbeyleix and Maryborough, over Cullenagh Hill, and the south-eastwards across the Castlecomer Coalfield to the Valley of the Barrow, south of Old Leighlin, and Bagenalstown. (1860.) [Maps 127, 128, 137, 147.] Price 4s. 3d.

File Name: HS_003

Horizontal or longitudinal section 4. A continuous Section from Galley Head, on the coast of Cork, northwards by Macroom and Mushereamore, to the Coalfield north of Millstreet. (1860.) [Maps 174, 185, 193, 194, 201.] Price 4s. 3d.

File Name: HS_004

Horizontal or longitudinal section 5. Section 1. From Flat Head, northwards across the country lying on the western side of Cork Harbour. 2. Continuation of No. 1 on a slightly different line across the upper part of Cork Harbour and the River Lee by Glanmire to Watergrass Hill. 3. A Continuation of No. 2, on a (lightly different line by Rathcormack and Fermoy. (1860.) [Maps 195, 187, 176.] Price 3s. 9d.

File Name: HS_005

Horizontal or longitudinal section 6. Section across the ridge to the westward of the Knockmealdown Hills, and the Mitchelstown Valley, to the Slieve Phelim Hills. (1860.) [Maps 144, 154, 165.] Price 4s. 3d.

File Name: HS_006

Horizontal or longitudinal section 7. Section 1. Across the Trappean basin of the County of Limerick, to a ridge near Emly. 2. From Cromwell's Hill, northwards by Kilteely and Caherconlish to Maddyboy. (1860.) [Maps 143, 144, 154.] Price 5s. 0d.

File Name: HS_007

Horizontal or longitudinal section 8. Section 1. From Uregare, near Bruff, across Knockdirk and Ballybrood to Drumsalagh, Portnair, and the flanks of the Slieve Phelim Hills. 2. By Lough Gur, Rawleysstown Court, and over Knockroe to Inch. 3. From near Ballybrood, eastwards over Pallas Hill. 4. From Rockhill to Ballinleeny, county Limerick. 5. Across Knockfeerina, county Limerick. (1860.) [Maps 144, 153, 154.] Price 5s. 0d.

File Name: HS_008

Horizontal or longitudinal section 9. Section 1. Across Keeper Hill and the Silvermines district. 2. From Ballyard graveyard across the Kilmastulla Valley, to the flanks of the Arra Mountains. 3. From Carrickallybaun (two miles N. of Killaloe), through Tomgraney, to Drewsborough House. 4. From the south slope of the Cratloe Mountains across Slieve Bernagh, by Kilkishen to Danganville. 5. Across the ground between Mauricemills and Ennis (1861) [Maps 132, 133, 134, 143.] price 4s. 3d.

File Name: HS_009
Ireland, horizontal or longitudinal sections and miscellaneous maps

Horizontal or longitudinal section 10. Section 1. Across the Slievardagh Coalfield, from near the village called the Four Roads, to the northern flank of the Nine Mile House tableland. Section 2. From near the village of New Birmingham, across Earl's Hill Colliery to Wilford House, two miles south of the village 4 Balltgarry. From Littlefield House, across Boula Collieries, to west of Ballingarry. From Woodsgift to the village of Tullarvan. 5. From near Johnstown, over Spa Hill. 6. From the Hollyford Mines to Marlow, north-west of Clonoulty. (1861.) [Maps 136, 145, 146, 156.] Price 4s. 3d.

File Name: HS_010

Horizontal or longitudinal section 11. Section 1. Across the Devil's Bit Mountains to the neighbourhood of Templemore. 2. Across the country between the Slievebloom and Devil's Bit Mountains. 3. Over Knockshigowna Hill to the Little Brosna River. 4. Across the Slievebloom range. (1862.) [Maps 126, 127, 135.] Price 4s. 3d.

File Name: HS_011

Horizontal or longitudinal section 12. Section 1. From near Langley Lodge to the top of Slieveraman. 2. From Sheepstown cross roads to south of Thomastown. 3. From Stonyford to valley of Arrigle River, south of Mount Argula. 4. From Gowran Demesne to near Coolhill Castle. 5. From the Coal Measures, seen in Moneyfelith River, across the Valley of the Barrow. (1862.) [Maps 147, 156, 157.] Price 5s.0d.

File Name: HS_012

Horizontal or longitudinal section 13. Section 1. From the neighbourhood of Dungarvan to Poulakerry, near Kilsheelan. 2. From Nine Mile House tableland to one mile south of Graignamamagh. (1862.) [Maps 156, 157, 167, 178.] Price 4s. 3d.

File Name: HS_013

Horizontal or longitudinal section 14. Section 1. From Oldtown to the Naul. 2. From Knightstown Quarry to the Bog of the Ring. 3. Across Donabate Promontory. 4. Along the coast from' shore S. of Rush, to shore N. of Skerries. 5. Across the Hill of Howth. 6. S. of Killakee House, through Montpelier Hill, to Allenton House. 7. From the Granite at Three Rock Mountain on the south, to the Limestone at Donnybrook on the north. 8. From Killiney and Rochestown Hill, to the shore at Blackrock. (1862.) [Maps 92, 102, 112.] Price 5s.0d.

File Name: HS_014

Horizontal or longitudinal section 15. Section 1. From Sybil Head, to Slea Head, general direction from north to south. 2. From Brandon Head, through Mount Brandon, to Bull's Head. 3. From Tralee Bay, across Caherconcree Mountain, to Castlemaine Harbour. (1862.) [Maps 160, 161, 171, 172.] Price 3s. 9d.

File Name: HS_015

Horizontal or longitudinal section 16. Section from Knockadoon Head, to the east end of the Galty Mountains (1862.) [Maps 155, 166, 177, 188.] Price 4s. 3d.

File Name: HS_016

Horizontal or longitudinal section 17. No. 1. Through Lisdoonvarna to Black Head, Galway Bay. No. 2. From Inchiquin Lough by Crusheen to Slieve Aughta. No. 3. From Ayle to Killanena. No. 4. From Scarriff to Turkenagh. (1864.) [Maps 114, 123, 124, 125, 134.] Price 4s. 3d.

File Name: HS_017

Horizontal or longitudinal section 18. No. 1. From Scarriff to Dunsandle (Loughrea). No. 2. Through Toberelatan to Kylebeg. No. 3. From Marblehill to Dalystown. (1864.) [Maps 115, 116, 124, 125.] Price 4s. 3d.

File Name: HS_018
Ireland, horizontal or longitudinal sections and miscellaneous maps

Horizontal or longitudinal section 19. Section from Toe Head, by Bantry to Kilgarvan. (1866.) [Maps 184, 192, 199, 200, 205.] Price 4s. 3d.

File Name: HS_019

Horizontal or longitudinal section 20. Section across the Kenmare Valley over Macgillicuddy’s Reeks, and the Slievemnish Mountains near Tralee. (1865.) [Maps 162, 173, 184.] Price 3s. 0d.

File Name: HS_020

Horizontal or longitudinal section 21. Section 1. From Kilgarvan to Ross Island south of Killarney. 2. From the Eastern end of Bear Island to the Kenmare River. 3. From Rosmore Island to Mullaghanatten Mountain. (1866.) [Maps 173, 183, 184, 191, 192, 199.] Price 4s. 3d.

File Name: HS_021

Horizontal or longitudinal section 22. Section from Annalong, County Down, to Lough Neagh. (1873.) [Maps 36, 48, 60, 61.] Price 5s. 0d.

File Name: HS_022

Horizontal or longitudinal section 23. Section 1. Across the Mourne Mountains and Slieve Croob to Lough Neagh (continued). 2. From Warrenpoint to the sea at Newcastle, County Down, (1874.) [Maps 36, 60, 61.] Price 5s. 0d.

File Name: HS_023

Horizontal or longitudinal section 24. Section 1. From Soldier’s Point, at the entrance to Carlingford Lough, to the sea at Newcastle, County Down. 2. From Killinchy across Scrabo Hill to the sea at Cultra, County Down. (1874.) [Maps 29, 37, 60, 61, 71.] Price 5s. 0d.

File Name: HS_024

Horizontal or longitudinal section 2.5 Section from Kilkieran Bay on the south to Killary Harbour on the north. (1879.) [Maps 84, 94, 104.] Price 4s. 3d.

File Name: HS_025

Horizontal or longitudinal section 26 Section 1. From Killary Harbour to Clew Bay. 2. From Moher Lough to Lough Mask. (1879.) [Maps 74, 83, 84, 85.] Price 5s. 0d.

File Name: HS_026

Horizontal or longitudinal section 27. Section 1. From Lough Neagh on the south-east, across White Mountain to Brown Hill, County Londonderry, on the north-west. 2. From Fir Mountain across Slieve Gallion to the Moyola River east of Curran. 3. From Lough Foyle going eastward over Binevenagh. (1889.) [Maps 12, 18, 19, 26, 27.] Price 5s. 0d.

File Name: HS_027

Horizontal or longitudinal section 28. Section 1. From the county boundary 4 and a half miles south-west of Carrickmacross to Barnes Bridge, near Newry. 2. Across the Carlingford Promontory from Dundalk Bay to Carlingford Lough. (1889.) [Maps 59, 70, 71, 81.] Price 5s. 0d.

File Name: HS_028

Horizontal or longitudinal section 29. Section 1. From Carrickfergus in a N.N.W. direction to Fair Head and Rathlin Island. (1890.) [Maps 14, 20, 28, 29.] Price 6s. 3d.

File Name: HS_029
Ireland, horizontal or longitudinal sections and miscellaneous maps

Horizontal or longitudinal section 30. Section 1. Continuation Section. Sheet 29. 2. Rathlin Island. 3. Section three miles (west of Armoy by Knocklayd Mountain to the coast at Portnaggee Colliery. (1890.) [Maps 8, 13, 14.] Price 4s. 3d.

File Name:   HS_030

Horizontal or longitudinal section 31. Section 1. From the River Lagan south of Belfast in a N.N.W. direction to Bengore Head, Giant's Causeway. (1891.) [Maps 20, 28, 36.] Price 5s.0d.

File Name:   HS_031

Horizontal or longitudinal section 32. Section 1. Continued from Sheet 31. Section 2. From Taitstown in an E.N.E. direction through Glynn, Larne Lough, and Island Magee. (1892.) [Maps 7, 13, 14, 20, 21.] Price 5s. 9d.

File Name:   HS_032

Horizontal or longitudinal section 33. Section from River Shannon, three miles S.W. of Drumshambo across Slieve Anierin, Cuilcagh and Enniskillen. (1891.) [Maps 44, 45, 56, 67.] Price 4s. 3d.

File Name:   HS_033

Horizontal or longitudinal section 34. Section from River Finn west of Castlefinn in a N.N.W. direction by Errigal to the Atlantic Ocean near the Bloody Foreland. (1891.) [Maps 9, 10, 16, 17, 25.] Price 7s.0d.

File Name:   HS_034

Horizontal or longitudinal section 35. Section 1. From Ray Point, Lough Swilly, in a N.N.W. direction across Knockalla to the Atlantic Ocean at Rinmore Point. Showing Metamorphic and Igneous Rocks and Lower Old Red Sandstone. Section 2. From Lough Fern in a N.W. direction across Lough Salt Mountain, and east of Dunfanaghy to the Atlantic Ocean at Horn Head. Showing Metamorphic and Igneous Rocks. (1894.) [Maps 4, 5, 10, 11.] Price 6s. 3d.

File Name:   HS_035

Horizontal or longitudinal section 36. Section 1. From Donegal Bay in a N.N.E. direction to Reelan River, by Bluestack and Gaugin Mountains. 2. Section in a N.W. direction across Slieve League from Donegal Bay to the Atlantic Ocean. (1891.) [Maps 22, 24, 31, 32.] Price 5s.0d.

File Name:   HS_036

Horizontal or longitudinal section 37. Section from Ballykillowen Hill going N.W. by Donegal and Glenties to Crohy Head. (1892.) [Maps 15, 23, 24. 32.] Price 5s.0d.

File Name:   HS_037

Longitudinal section, Old Series. Sheet 1.-Section from the Bilboa Colliery across Croaghan Kinshela to Arklow Rock.

File Name:   LS_001

Longitudinal section, Old Series. Sheet 2.-Section from Dunlavin, across Lugnaquilla and Croaghan-Moira to the sea-coast near Johnstown.

File Name:   LS_002

Longitudinal section, Old Series. Sheet 3.-Section from near Kilcullen, in the county of Kildare, to Mizen Head, in the county of Wicklow.

File Name:   LS_003
Ireland, horizontal or longitudinal sections and miscellaneous maps

Longitudinal section, Old Series. Sheet 4.-No. 1. Section from Glencree across Sugar Loaf Hill, in the county of Wicklow.

**File Name:** LS_004

Lough Allen Coalfield. Roscommon. Sheet 1 (1875)

**File Name:** MAP_001

Lough Allen Coalfield. Roscommon. Sheet 2 (1876)

**File Name:** MAP_002

Lough Allen Coalfield. Leitrim. Sheet 20 (1876)

**File Name:** MAP_020

Lough Allen Coalfield. Leitrim. Sheet 21 (1877)

**File Name:** MAP_021

Lough Allen Coalfield. Sligo. Sheet 35 (1876)

**File Name:** MAP_035

Larne area. Antrim. Sheet 41 (1874)

**File Name:** MAP_041

Tyrone coalfield. Tyrone. Sheet 46 (1877)

**File Name:** MAP_046

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Tyrone coalfield. Tyrone. Sheet 55 (1874)

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Dublin, Drift edition

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Sheet 170 Rosslare Point 1856 Filename IR170A_001.jpg
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Sheet 179 Tramore 1857 Filename IR179A_001.jpg

Sheet 179 Tramore 1863 Filename IR179B_001.jpg
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Sheet 179 Tramore 1901 Filename IR179C_001.jpg

Sheet 180 Fethard 1856 Filename IR180A_001.jpg
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Sheet 180 Fethard 1901 Filename IR180D_001.jpg

Sheet 181 Carnsore Point 1856 Filename IR181A_001.jpg
Sheet 188 Youghal 1857 Filename IR188A_001.jpg

Sheet 188 Youghal 1880 Filename IR188B_001.jpg
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Sheet 193 Dunmanway 1913 Filename IR193D_001.jpg

Sheet 194 Bandon 1858 Filename IR194A_001.jpg
Ireland, horizontal sections and miscellaneous maps

Longitudinal section 4 Filename HS_004.jpg

Longitudinal section 5 Filename HS_005.jpg
Old series section. Sheet 4.-No. 1. Glencree across Sugar Loaf Hill. Filename LS_004.jpg

Ovoca Mines, Plans and Sections Filename MISC_002.jpg
Vertical sections of 25 shafts sunk in the Castlecomer coalfield Filename MISC_001.jpg